Amendments to the Claims

The current listing of the claims replaces all previous amendments and listings of the claims.

1. (Currently Amended) ~~Method~~ A method of transmitting[[,]] data over a physical link between a base station and a controller of a telecommunications system, ~~data issuing from a plurality of users in communication with the said base station,~~ the ~~said~~ data ~~being~~ segmented ~~in the form of~~ into cells, the ~~said~~ system ~~being designed so that~~ configured to send the ~~said~~ cells ~~are sent~~ over the ~~said~~ link at ~~transmission~~ time intervals ~~TTI which are different according~~ corresponding to ~~the~~ a type ~~to which they belong~~ of the data, ~~characterised in that it consists of using as many queues as there are different types of data which the said telecommunications system can manage, the said queues being fed by cells carrying the said data, each queue being fed by the cells to which the type~~ the method comprising:

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providing different types of data to corresponding ~~to the said queue is allocated,~~ different queues;

~~the said queues being emptied by time slices with~~ emptying non-empty queues in an order from the queue having the data with a shortest transmission time interval to a queue having the data with a longest transmission time interval during a time period having a predetermined duration ~~in the following manner:~~; and

~~at the commencement of each slice, the first non-empty queue, in increasing order of the said time intervals allocated to the said queues, is emptied, then the second non-empty one is emptied, then the third non-empty one, etc, and~~

~~at the expiry of the said time slice, the cycle recommences, whatever the state of the said queues~~

repeating the emptying after the expiration of the time period regardless of a state of the queues.

2. (Currently Amended) ~~Method~~ The method according to claim 1, ~~characterised in that~~ wherein the ~~said~~ predetermined duration is equal to ~~a duration at most equal to~~ the ~~smallest~~ shortest transmission time interval ~~in the said system~~.

3. (Currently Amended) ~~Data~~ A data transmission method ~~according to claim 1 or 2, characterised in that it is~~ comprising:

~~implemented between the~~ implementing the method according to claim 1 or 2 between a segmentation sublayer of ~~the~~ a layer for adaptation to ~~the~~ a transportation layer and ~~the~~ a common part sublayer of the ~~same~~ layer for adaptation